

and plugged back into their respective ports. This process can be inconvenient, awkward, and difficult, especially when frequently repeated.

**[0042]** Although portable computing devices, such as laptops and tablets, can be docked at an office or home-office station that includes a secondary display to provide a computing experience that is similar to a desktop computing experience, these devices still require an additional set of input devices to imitate a desktop computing device. Further, the primary display of devices such as laptops and tablets often may not be used when the device is docked to a station that includes a secondary display, adding potentially unnecessary size and cost to such portable computing devices.

**[0043]** The computing devices described herein can incorporate or otherwise house one or more computing components within an input device to provide a portable desktop computing experience at any location having one or more computer monitors. For example, a user can transport a keyboard that houses a computer, as opposed to carrying an entire laptop or a tower and keyboard. As some form of an input device is often required for interacting or interfacing with a computing device, including computing components within the housing or enclosure of an input device can eliminate the need for redundant sets of input devices and reduces the number of components that need to be transported by the user. Further, the input device can eliminate additional components, such as displays, that are not required when used with a standalone computer monitor, thereby reducing costs and size. Accordingly, in some examples, an input device can include computing components within the housing of the input device. This device configuration can allow a user to carry a single computing device (e.g., computing components within an input device) that can provide a desktop computing experience at any location having one or more computer monitors.

**[0044]** The combination computing and input devices described herein can include features, designs, and system architectures that can allow for desired levels of performance while maintaining a form factor that is the same as or similar to the form factor of a traditional input device. In some examples, a computing device can include an enclosure defining first and second vents. The enclosure can define an airflow pathway from an ambient environment adjacent the enclosure through the first vent and into an internal volume of the enclosure. The airflow pathway can extend from the internal volume through the second vent and into the ambient environment. One or more air-moving apparatuses positioned within the internal volume can move air along the airflow pathway. In some examples, these features can provide desired levels of cooling or thermal management to a device to allow for desired levels of performance.

**[0045]** In some examples, the computing device can include an enclosure having a thermally conductive base. The computing device can include a processing unit in thermal communication with the base. The processing unit can generate heat while operating, which can negatively impact the performance of the processing unit. The base, however, can be manufactured at least partially of a material that distributes or spreads heat substantially through the mass of the base (i.e., thermally conductive), thereby more evenly spreading or distributing heat generated by the processing unit over a larger surface area of the base to more

effectively regulate operating temperatures of the computing device. Some non-limiting examples of thermally conductive materials are copper, aluminum, brass, steel, and bronze.

**[0046]** These and other embodiments are discussed below with reference to FIGS. 1A-9. However, those skilled in the art will readily appreciate that the detailed description given herein with respect to these Figures is for explanatory purposes only and should not be construed as limiting.

**[0047]** FIG. 1A shows an example of an electronic device, such as a computer or a computing device, as described herein. The computing device **100** shown in FIG. 1A can also function as an input device, such as a keyboard, and can be used with a display **102**. This is, however, merely one representative example of a computing device that can be used in conjunction with the ideas disclosed herein. The computing device **100** can, for example, correspond to a virtual keyboard, a track pad or touchpad, a mouse, a tablet computer, a combination thereof, or other input devices. The computing device **100** shown in FIG. 1A can be generally referred to as a keyboard having computing components which permit the keyboard to function as a desktop computing device. As shown, the computing device **100** can be used in conjunction with any number of monitors or displays **102**, as well as other input devices such as a mouse **104**, a track pad (see FIG. 5), a stylus (not shown), a microphone (not shown), or any combination of input devices.

**[0048]** FIG. 1B shows a top view of a computing device **100** including an input region **108** positioned on a top portion of the enclosure **110** of the computing device **100**. The computing device **100** can be substantially similar to, and can include some or all of the features of the computing devices described herein. The computing device **100** can be generally referred to as a keyboard having computing components which permit the keyboard to function as a computing device. The computing device **100** can be used in conjunction with any number of monitors or displays and, as well as other input devices such as a mouse, a track pad, a stylus, a microphone, or any combination of input devices.

**[0049]** The computing device **100** can include the input region **108** across the top portion of the enclosure **110** of the computing device **100**. The input region **108** can include any number or variety of input components. In some examples, the input region **108** can include an accessory display, such as any appropriate display element (e.g., an LCD display, E-Ink display, LED display, or any other form of display), illumination layer (e.g., LEDs or the like), and/or any other component configured to depict a graphical output. The input region **108** can be adaptable such that it is continually defined by all of, or a subset of, an area of the enclosure **110** of the computing device **100**. The enclosure **110** of the computing device **100** can contain or conceal one or more sensors (e.g., a capacitive array, or a piezoelectric element) to allow the input region **108** to detect a touch and/or force input and produce a corresponding electrical response for controlling the computing device **100**. In some examples, the input region **108** can be defined by or can include a sensing region of one or more sensors, such as one or more sensors to detect a position of a part of a user's body with respect to the device **100**. In some examples, the input region **108** can be defined by a projection from one or more components, such as a projection of a virtual keyboard from a projector contained in the enclosure **110**.